

APPROVED BY	O.G. FIG.	SUBCLASS
	CLASS	DRAFTSMAN

FIG. 1A

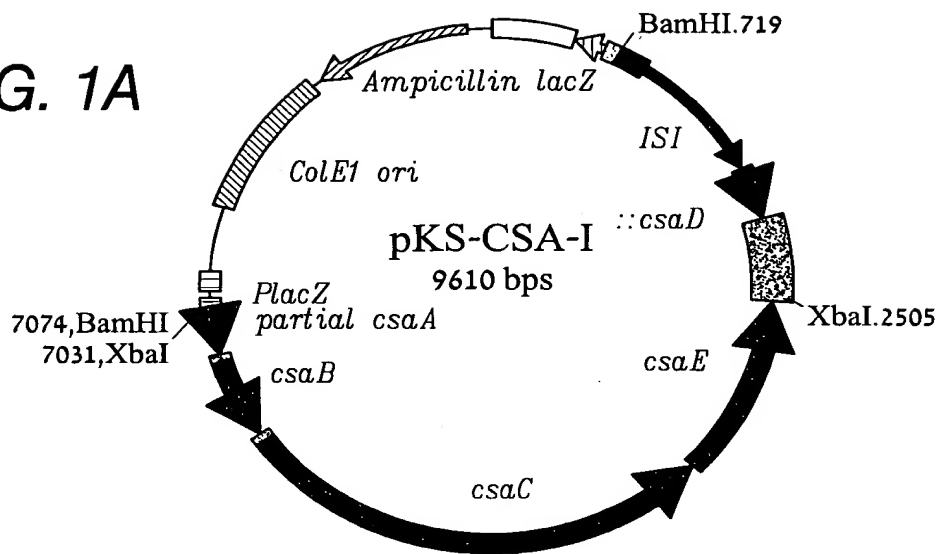


FIG. 1B

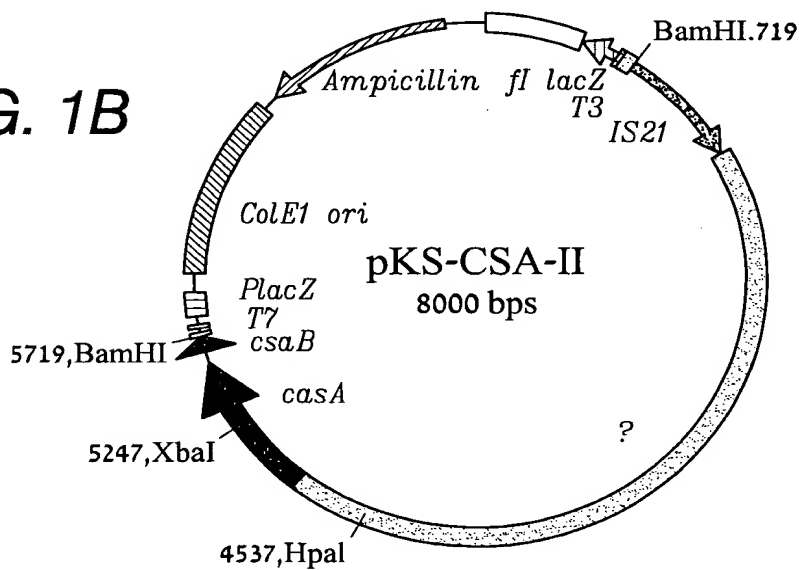


FIG. 1C

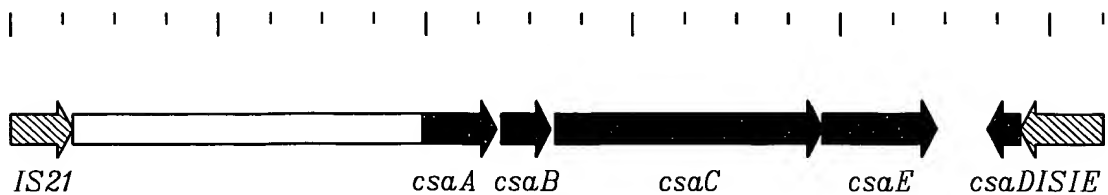


FIG. 1D



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FIG. 2B

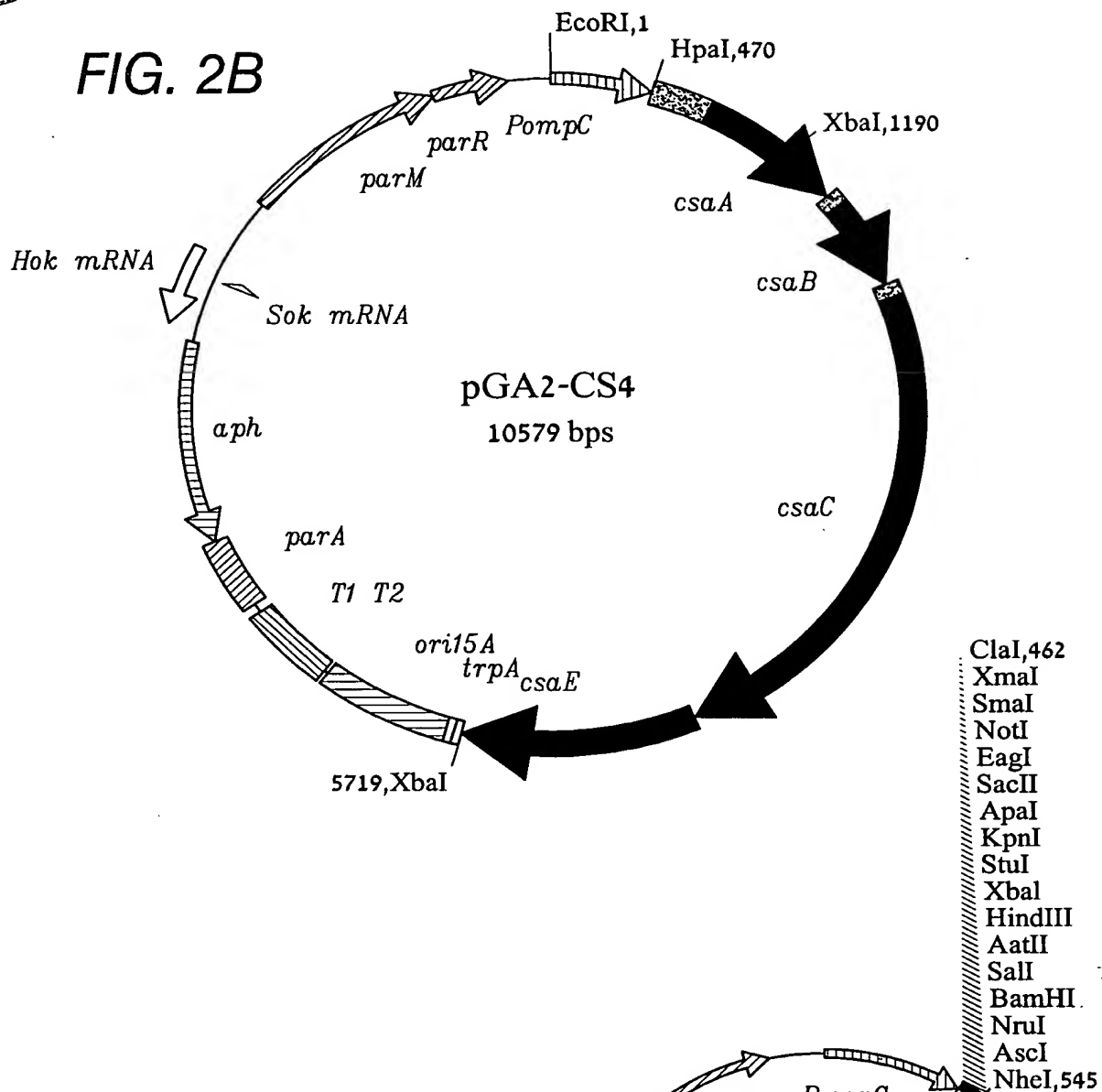
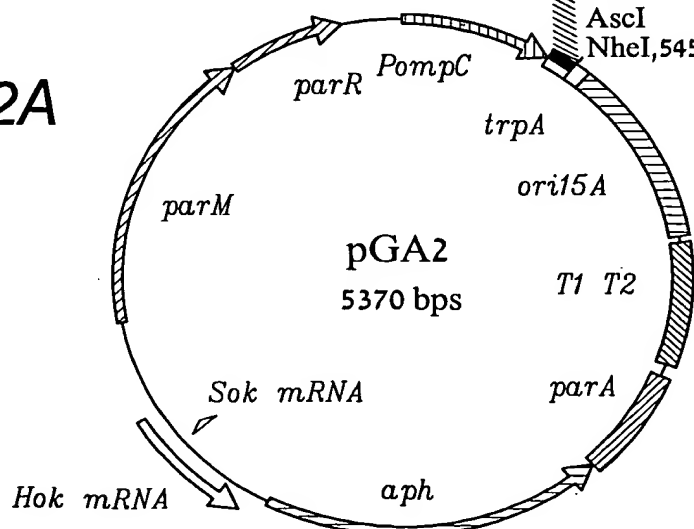


FIG. 2A



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	CLASS	

1 50
CsaE TMNKILFIFT LFFSSVLFTF AVSADKIPGD ESITNIFGP. RDRNESS P
CfaE .MNKILFIFT LFFSSGFFTF AVSADKNPGS ENMTNTIGP. HDRGGSS P
CotD .MKKVIFVLS MFLCSQVYGQ SWHTNVEAGS INKTFSIGP. IDRSAAASY P
CooD .MKKIFIFL SIIFSAVVSA GRYPETTVGN LTKSFQAPR. LDRSVQS P
TsaD MSNIC4KWTSM TAHWSAII NF IRKYVYPARI IAIL114AGAT LPQVADAITV
Consensus ..nK.....fSafrag. iag.- ldr.a.a p

51 100
CsaE KHNILNNHIT A YSESH TLYDRMT.FL CLSSHNTLNG ACPTSENPPS
CfaE IYNILNSYLT A YNGSH HLYDRMS.FL CLSSQNTLNG ACPSSDAPGT
CotD AHYIFHEBVA G YNKDH SLFDRMT.FL CMSSTDASKG ACPTGENSKS
CooD IYNIFTNHVA G YLSH SLYDRIV.FL CTSSSNPVNG ACPTIGTSGV
TsaD DLNYDKNNVA VITPVWSQEW SVANVLGGWV CRSNRNENEG CEETHLVWV
Consensus ..ni..nhvays..h sljr-fl C.Ss.#...G ACpt

101 150
CsaE SSVSGETNIT LQFTEKRS LI KRELQIKGYK QLLFKSVNC. .PSGLTLNS
CfaE ATIDGETNIT LQFTEKRS LI KRELQIKGYK QFLFKNANC. .pSKLALNS
CotD S..QGETNIK LIFTEKKS LA RKTNLKGYK RFLYESDCI HYVDKMNLNS
CooD Q..YGTITIT LQFTEKRS LI KRNIAGNK KPIWENQSC. DFSNIMVLNS
TsaD. YAFGAYSXIR LRFREQISHA EITLILLGSV R DAC. TGVINMNA
Consensus -.g.t.l. L.FtEk.Sla ..U.I.G.k r d-C. y n\$Ns

151 200
CsaE AHFNCKNA. ASGASLYLYI PAGELKNLPF GGIWDATLKL RVKRR ... YS
CfaE SHFQCNR EQ. ASGATLSLYI PAGELKNLPF GGVWNAVLKL NVKRR ... Y
CotD HTVKCVGSF. TRGVDFTL YI PQGEIDGLT GGIWKATLEL RVKRH . YD
CooD KSWSCGA.HGN ANGTILNLYI PAGEINKLPF GGIWEATLIL RLSRYGEVSS
TsaD AACQW GRSLKLRI PSEELAKIPT SGTWKATLVL DYLGWG. .GD
ConsensuscG.....l.Lyl P.gEl.klpt gGiW.AtL.L r r.g d

201 250
CsaE ETYGTYTINI TIKLTDK-.G NIQIWL PQF- KSDARVDLNL RPTGGGTYIG
CfaE TTYGTYTINI TVNLTDK..G NIQIWL PQF. KSNARVDLNL RPTGGGTYIG
CotD YNHGTYKVNI TVDLTDK..G NIQVWTPKF- HSDPRIDLNL RPEGNGKYSG
CooD THYGNYTVNI TVDLTDK-.G NIQVWLP GF. HSNPRVDLNL RPIGNKYSG
TsaD DPLGTSTTDI TLNVTDFHAE NAAIYFPQFG TATPRVDLNL HRMNASQMSG
Consensus --- Gtyt-#l Tv.ITDk..g Niq!w.PqF. s.pR!DLNL rp.g ... ysG

251 300
CsaE RNSVDMCFYD GYSTNSSSLE IRFQDNNPKS DGKFYLKIN DDTKEIAYTL
CfaE RNSVDMCFYD GYSTMSSSLE IRFQDDNSKS DGKFYLKIN DDSKELVYTL
CotD SNVLEMCLYD GYSTHSQSIE MRFQDDSQTG NNEYNLIKTG EPLKKLPYKL
CooD SNSLDMCFYD GYSTNSDSMV IKFQDDNPTN SSEYNLYKIG G.TEKL PYAV
TsaD RANLDMCLYD G.GVKARSLQ MMEGSNKSG TG.FQVIK.S DSADTIDYAV
Consensus m.l#MC1YD Gyst.s.Sl. mkf#ddn..g g-%.liK.. d l. Yav

301 350
CsaE SLLLAGXSLT PTNGTSLNIA DAASLFTNWN RITAVTMPEI SVPVLCWPGR
CfaE SLLLAGKNLT PTNGQALNI. NTASLETNWN RITAVTMPEI SVPVLCWPGR
CotD SLLGGREFY PNNGKAFTIN DTSSLFINWN RIKSVSLPQI SIPVLCWPAN
CooD SLI14GEKIFY PVNGQSFTIN DSSVLETNWN RVTAVAMPEV NVPVLCWPAR
TsaD SMNYGGRSIP VTRGVEFSLD NVDKAATR. .PVVLPQG RQAVRCVPVP
Consensus SSl.ggr -- ptnG-..... f.i. # --- l.twn r V.7SP pVlcwp

351 383
CsaE LQLDAK ... V ENPEAGQYMG NINVTFTPSS QTL
CfaE LQLDAK ... V KNPEAGQYMG NIKITFTPSS QTL
CotD LTFMSE ... L NNPEAGEYSG ILNVTFTPSS SSL
CooD LLLNAD ... V NAPDAGQYSG QIYITFPSV ENL
TsaD LTLTTQPFNI REKRSGEYQG TLTVTMLMGT QTP
Consensus Ltlp.aG#Y.G .l-!Tftps. qtl

Fig. 3

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

		1		60
CsaB	MKLKKTIGAM	ALTTMFVAMS	ASAVEKNITV	TASVDPTIDI LQADGSSLPT AVELTYS PAA
CfaA	MKFKKTIGAM	ALTTMFVAVS	ASAVEKNITV	TASVDPAILD LQADGNALPS VKLAYSPAS
CooA	MKLKKTIGAM	ALATLFATMG	ASAVEKTISV	TASVDPTVDL LQSDGSALPN VALTYS PAV
CotA	MKLNKIIGAL	VLSSTFVSMG	ASAAEKNITV	TASVDPTIDL MQSDGTALPS AVNIA YLPGE
CsuA1	MKLKYTIGAM	ALSTIFVAVS	ASAVEKNITV	TASVDPTIDI, LQANGSALPT AVDLTYLPGA
CsuA2	VDPTIDI	LQANGSALPT	AVDLTYLPGA	
CsdA	VDPKLDL	LQADGTS LPD	SIALTYSSAS	
Csba	VDPKLDL	LQADGTS LPD	SIALTYSSAS	
Consensus	mk..k.iga. .l ... f asa.ek.i.v tasVDPtiDI \$Qa#GtaLP. a!.ltYspa.			
61				120
CsaB	SRFENYKIAT	KVHTNVINKN	VLVKL VNDPK	-LTNVLDSTK QLPITVSYGG K-LSTADVTF
CfaA	KIFESYRVMT	QVHTNDATKK	VIVKLADTPQ	-LTDV.LNSTV QMPISVSWGG VLSTTAKEF
CooA	NNFEAHTINT	VVHTNDSDKG	VVVKLSADPV	-LSNVLNPTL QIPVSVNFAG KPLSTTGITI
CotA	KRFESARINT	QVHTNNKTKG	IQIKLTNDNV	VMTNLSDP SK TIPLEV SFAG TKLSTAATSI
CsuA1	KTFENYSVLT	QIYTNDPSKG	LDVRLVDTPK	-LTNQLPTS TIPLTVSWAG RTLSTSAQKI
CsuA2	KTFENYSVLT	QIYTNDPSKG	LDVRLVDTPK	-LTNQLPTS TIPLTVSWAG KTLSTSAQKI
CsdA	NNFEVYSLNT	AIHTNDKTKA	VVVKLSAPAV	-LSNIMKPSS QIPMKVTLGG KTLSTADAEF
Csba	NNFEVYSLNT	AIHTNDKSKG	VVVKLSASPV	-LSNIMXPNS QIPMKVTLGG ETLNTDTEF
Consensus	..FE.ys.nT .!hTN#k.Kg v.!kL...pv .StNi..p.s qiP..Vs.gG tLsT f,			
121				179
CsaB	EPAELNFGTS	GVTGVSSSQD	LVIGA----	T TAQAPSA-NY SGVVSILMTL AS
CfaA	EAAALGYSAS	GVNGVSSSQE	LVISA-APKT	AGTAPTAGNY SGVVSILVMTL GS
CooA	DSNDLNFASS	GVNYVSSSTQK	LSIHADATRV	TGGALTAGQY QGLVSIILTK ST
CotA	TADQLNFGAA	GVETVSATKE	LVINAGSTQQ	TN--IVAGNY QGLVSIVLTQ EP
CsuA1	AVGDLGFGST	GTAGVSNSKE	LVIGA---	TT SGK-PSAGKY QGVVSIVMTQ STN
CsuA2	AVGDLGFGST	GTAGVSNSKE	LVIGA---	TT SGTAPSAGKY QGVVSIVMTQ STD AAPVP
CsdA	AADTLNFGAS	GVENVSSVQQ	LTIHA ---	EA --APPEAGNY QGVISLIMTQ KT
Csba	TVDTLNFGTS	GVENVSSTQQ	LTIHA ---	DT QGTAP EAGNY QGIISLIMTQ KT
Consensus	-d.LnFg.s	Gve.VSs.q.	LvLA	t g.ap.AGnY qGv!Si!\$Tq t

Multalin (version 5.4. 1). Consensus symbols: ! is anyone of IV; \$ is anyone of LM; % is anyone of FY; # is anyone of NDQEBZ

Fig. 4.